**Sequence 1**: US6472518\_8 Sequence 8 from Patent US 6472518 inClaims gi: 27289033 Length =  $5416 \ \{1 ... 5416\}$ 

**Sequence 2**: US20070219347\_1 Sequence 1 Organism: Neisseria meningitidis Length = 2242716 (1 .. 2242716)

Score = 8866 bits (4611), Expect = 0.0
Identities = 4984/5076 (98%), Gaps = 42/5076 (0%)
Strand=Plus/Plus

Query	6	GCATGCAAGCTGGAAGGAAACTTGCCGCAGCCAGGAAAACGGTGCAGGAGAGAGA	65
Sbjct	436931	GCATGCAAGCTGGAAGGAAACTTGCCGCAGCC-GGAAAACGGTGCAGTGCA	436989
Query	66	AGGGGCGCCGTTTGTTGGCAAGATTGAAACGGTGGATTGAAAACAGCTTCTGAACAGG	125
Sbjct	436990	AGGGGCCGCCGTTTGTTGGCAAGATTGAAACGGTGGATTGAAAACAGCTTCTGAACAGG	437049
Query	126	TGGATTGCCGTTTGACAGGTGAGAAGTATTTTGCCAGCAGCAAGATACTTCTTATATAAT	185
Sbjct	437050	TGGATTGCCGTTTGACAGGTGAGAAGTATTTTGCCAGCAGCAAGATACTTCTTATAAT	437109
Query	186	GAATAATAATTATTTAAACCGTCCTCTGAATGGGGGGGGG	245
Sbjct	437110	GAATAATTATTTAAACCGTCCTCTGAATGGGGCCAGCAGGAGTTTTTGAATGGAAT	437169
Query	246	TTGTTTACGACGTGGCAGAATCGGCAGTCAGCCCTGCGGTGATTAAAGTAATCGGCTTGG	305
Sbjct	437170	TTGTTTACGACGTGGCAGAATCGGCAGTCAGCCCTGCGGTGATTAAAGTAATCGGCTTGG	437229
Query	306	GCGGCGGCGGTTGCAATGCATCCAATAACATGGTTGCCAACAATGTGCGCGGTGTGGAGT	365
Sbjct	437230	GCGGCGGCGGTTGCAATGCAATCAATAACATGGTTGCCAACAATGTGCGCGGTGTGGAGT	437289
Query	366	TTATCAGTGCCAATACGGATGCGCAGTCTCTGGCAAAAAACCATGCGGCGAAGAGAATCC	425
Sbjct	437290	TTATCAGTGCCAATACGGATGCGCAGTCTCTGGCAAAAAACCATGCGGCGAAGAGAATCC	437349
Query	426	AGTTGGGTACGAATCTGACACGCGGTTTGGGCGCGGGGCGCGAATCCCGATATCGGCCGTG	485
Sbjct	437350	AGTTGGGTACGAATCTGACACGCGGTTTGGGCGCGGGCGCGAATCCCGATATCGGCCGTG	437409
Query	486	CGGCAGCCCAGGAAGACCGGGAAGCCATTGAAGAAGCCATTCGCGGTGCGAATATGCTGT	545
Sbjct	437410	CGGCAGCCCAGGAAGACCGGGAAGCCATTGAAGAAGCCATTCGCGGTGCGAATATGCTGT	437469
Query	546	TTATCACGACCGGTATGGGCGGCGGTACCGGTTCCGCGCGCG	605
Sbjct	437470	TTATCACGACCGGTATGGGCGGCGGTACCGGTTACCGGGTCGCGCCGGTTGTTGCTGAGA	437529
Query	606	TTGCCAAGTCTTTGGGCATTCTGACCGTTGCCGTGGTTACCCGACCGTTCGCATATGAAG	665
Sbjct	437530	TTGCCAAGTCTTTGGGCATTCTGACCGTTGCCGTGGTTACCCGACCGTTCGCATATGAAG	437589
Query	666	GTAAGCGCGTCCATGTCGCACAGGCAGGGTTGGAACAGTTGAAAGAACACGTCGATTCGC	725
Sbjct	437590	GTAAGCGCGTCCATGTCGCACAGGCAGGGTTGGAACAGTTGAAAGAACACGTCGATTCGC	437649
Query	726	TGATTATCATCCCGAACGACAACTGATGACTGCATTGGGTGAAGACGTAACGATGCGCG	785
Sbjct	437650	TGATTATCATCCCGAACGACAAACTGATGACTGCATTGGGTGAAGACGTAACGATGCGCG	437709
Query	786	AAGCCTTCCGTGCCGCCACAATGTATTGCGCGATGCGGTCGCAGGCATTTCCGAAGTGG	845
Sbjct	437710	AAGCCTTCCGTGCCGCCGACAATGTATTGCGCGATGCGGTCGCAGGCATTTCCGAAGTGG	437769
Query	846	TAACTTGCCCGAGCGAAATCATCAACCTCGACTTTGCCGACGTGAAAACCGTGATGAGCA	905
Sbjct	437770	TAACTTGCCCGAGCGAAATCATCAACCTCGACTTTGCCGACGTGAAAACCGTGATGAGCA	437829

Query	906	ACCGCGGTATCGCTATGATGGGTTCGGGTTATGCCCAAGGTATCGACCGTGCGCGTATGG	965
Sbjct	437830	ACCGCGGTATCGCTATGATGGGTTCGGGTTATGCCCAAGGTATCGACCGTGCGCGTATGG	437889
Query	966	CGACCGACCAGGCCATTTCCAGTCCGCTGCTGGACGATGTAACCTTGGACGGAGCGCGCG	1025
Sbjct	437890	CGACCGACCAGGCCATTTCCAGTCCGCTGCTGGACGATGTAACCTTGGACGGAGCGCGCG	437949
Query	1026	GTGTGCTGGTCAATATTACGACTGCTCCGGGTTGCTTGAAAATGTCCGAGTTGTCCGAAG	1085
Sbjct	437950	ĠŤĠŤĠĊŤĠĠŤĊĂĂŤĂŤŦĂĊĠĂĊŤĠĊŤĊĊĠĠĠŤŤĠĊŤŤĠĂĂĂĂŤĠŤĊĊĠĀĠŢŦĠŤĊĊĠĀĀĠ	438009
Query	1086	TCATGAAAATCGTCAACCAAAGCGCGCATCCCGATTTGGAATGCAAATTCGGTGCTGCTG	1145
Sbjct	438010	ŤĊĂŤĠĂĂĂĂŤĊĠŤĊĂĂĊĊĂĂĂĠĊĠĊĠĊĂŤĊĊĊĠĂŤŤŤĠĠĂĂŤĠĊĂĂĂŤŤĊĠĠŤĠĊĠĠĊŤĠ	438069
Query	1146	AAGACGAGACCATGAGCGAAGATGCCATCCGGATTACCATTATCGCTACCGGTCTGAAAG	1205
Sbjct	438070	AAGACGAGACCATGAGCGAAGATGCCATCCGGATTACCATTATCGCTACCGGTCTGAAAG	438129
Query	1206	AAAAAGGCGCGGTCGATTTTGTTCCGGCAAGGGAGGTAGAAGCGGTTGCCCCGTCCAAAC	1265
Sbjct	438130	AAAAAGGCGCGGTCGATTTTGTTCCGGCAAGGGAGGTAGAAGCGGTTGCTCCGTCCAAAC	438189
Query	1266	AGGAGCAAAGCCACAATGTCGAAGGTA-GATCCGCACCAATCGCGGTATCCGCACGATGA	1324
Sbjct	438190	ÁGGÁGCÁÁÁÁGCCÁCÁÁŤGŤCGÁÁGGŤÁTGÁŤCCGCÁCCÁÁŤCGCGCÁCGÁŤGÁ	438249
Query	1325	ACCTTACCGCTGCGGATTTCGACAATCAGTCCGTACTTGACGAC-TTGAAATCCCTGCGA	1383
Sbjct	438250	ACCTTACCGCTGCGGATTTCGACAATCAGTCCGTACTTGACGACTTTGAAATCCCTGCGA  ORFI FUD  TTTTGCGTCGTCAACACAATTCAGACAAATAATGTGCTGTTTGCCCGTAAACCTGCTGCC	438309
Query	1384		1443
Sbjct	438310	ŤŤŤŤĠĊĠŤĊĠŤĊAAĊAAŤŤĊAĠĂĊAAAŤAAŤĠŤĠĊŤĠŤŤŤĠĊĊĊĠŤAAAĊĊŤĠĊŤĠĊĊ TCCCGAATCGGTTTGTCCGGTTTGGGAGGTATGTTTTTCAAGATGTTGCAATTTCGTACG	438369
Query Sbjct	438370	TCCCGAATCGGTTTGTCCGGTTTGGGAGGTATGTTTTTCAAGATGTTGCAATTTCGTACG	1503
Query	1504	GTTTGCGGTCGGCGGATTCAGATTTTTCCACTTGATACAGACTTTCAGATATGGACACTT	438429 1563
Sbjct	438430		438489
Query	1564	CAAAACAAACACTGTTGGACGGGATTTTTAAGCTGAAGGCAAACGGTACGACGGTGCGTA	1623
Sbjct	438490		438549
Query	1624	CCGAGTTGATGGCGGGTTTGACAACTTTTTTGACGATGTGCTACATCGTTAATCGTCAAC	1683
Sbjct	438550		438608
Query	1684	CCTCTGATTTTGGGCGAGACCGGCATGGATATGGGGGCGGTATTCGTCGCTACCTGTATC	1743
Sbjct	438609		438668
Query	1744	GCGTCTGCCAATCGGCTGTTTTGTTATGGGTTTTGTCGGCAACTATCCGATTGCACTCGC	1803
Sbjct	438669		438727
Query	1804	ACCGGGGATGGGGCTGAATGCCTATTTCACCTTTGCCGTCGTTAAGGGTATGGGC-TGCC	1862
Sbjct	438728	ACCGGGGATGGGGCTGAATGCCTATTCACCTTTGCCGTCGTTAAGGGTATGGGCGTGCC	438787
Query	1863	TTGGCAGGTTGCGTTGGGTGCGGTGTTCATCTCCGGTCTGATTTTCATCCTGTTCAGGTT	1922
Sbjct	438788	TTGGCAGGTTGGGTGCGGTGTTCATCTCCGGTCTGATTTTTATCCTGTTCAGGTT	438847
Query	1923	TTTTAAAGTCAGGGAAATGCT-GTCAACGCACTGCCTATGGGTTTGAAAATGTCGATTGC	1981
Sbjct	438848	TTTTAAAGTCAGGGAAATGCTGGTCAACGCACTGCCTATGGGTTTGAAAATGTCGATTGC	438907

Query	1982	TGCCGGTATCGGTTTGTTTTTGGCACTGATTTCCCTGAAAGGCGCAGGCCATTATCGTTG	2041
Sbjct	438908		438966
Query	2042	CCAATCCGGCAACCTTGGTCGGTTTGGGCGATATTCATCAGCCGTCCGCGTTGTTGGCAC	2101
Sbjct	438967	CCAATCCGGCAACCTTGGTCGGTTTGGGCGATATTCATCAGCCGTCCGCGTTGTTGGCAT	439026
Query	2102	TGTTCGGTTTTGCTATGGTGGTCGTATTGGGACATTTCCGCGTTCAAGGCGCAA-CATCA	2160
Sbjct	439027	TĠŦŦĊĠĠŦŦŦĠĊŦĂŦĠĠŦĠĠŦĊĠŦĀŦŦĠĠĠĀĊĀŦŦŦĊĊĠĊĠŦŦĊĀĀĠĠĊĠĊĀĀŦĊĀŦĊĀ	439086
Query	2161	TCACCATCTTGACCATTACCGTCATTGCCAGCCTGATGGGTTTGAATGAA	2220
Sbjct	439087	ŤĊĂĊĊĂŤĊŤŤĠĂĊĊĂŤŤĂĊĊĠŤĊĂŤŤĠĊĊĂĠĊĊŤĠĂŤĠĠĠŤŦŤĠĂĂĠĠĂĀŤŦŤĊĂĊĠĠĊĀ	439146
Query	2221	TCATCGGCGAAGTACCGAGCATTGCGCCGACTTTTATGCAGATGGATTTTGAAGGCCTGT	2280
Sbjct	439147	TCATCGGCGÁÁGTACCGÁGCÁTTGCGCCGÁCTTŤŤÁŤGCÁGÁŤGGÁŤTTTGÁÁÁGGCCTGŤ	439206
Query	2281	TTACCGTCAGC-TGGTCAGTGATTTTCGTCTTCTTCTTGGTCGATCTATTTGACAGTA	2337
Sbjct	439207	ŤŤĂĊĊĠŤĊĂĠĊĂŤĠĠŤĊĂĠŦĠŤĠĂŤŤŤŤĊĠŤĊŤŤĊŤŤĠĠŤĊĠĂŤĊŤĂŤŤŤĠĂĊĂĠŤĂ	439266
Query	2338	CCGGAACGCTGGTCGGCATATCCCACCGTGCCGGGCTGCTGGTGGACGGTAAGCTGCCCC	2397
Sbjct	439267	CCGGAACGCTGGTCGGCATATCCCACCGTGCCGGGCTGCTGGTGGACGGTAAGCTGCCCC	439326
Query	2398	GCCTGAAACGCGCACTGCTTGCAGACTCTACCGCCATTATGGCAGGTGCGGCTTTGGGTA	2457
Sbjct	439327	GCCTGAAACGCGCACTGCTTGCAGACTCTACCGCCATTGTGGCAGGTGCGGCTTTGGGTA	439386
Query	2458 439387	CTTCTTCCACCACGCCTTATGTGGAAAGCGCGGGCGGGCG	2517
Sbjct Query	2518	GCCTGACGGCGTTACCGTCGGCGTATTGATGCTCGCCTGATGTTTTCACCTTTGG	439446 2577
Sbjct	439447		439506
Query	2578	CGAAAAGTGTTCCCGCTTTTGGCACCGCCCCCCCCCTGCTTTATGTCGGCACGCAGATGC	2637
Sbjct	439507		439566
Query	2638	TCCGCAGTGCGAGGGATATTGATTGGGACGATATGACGGAAGCCGCACCCGCATTCCTGA	2697
Sbjct	439567		439626
Query	2698	CCATTGTCTTCATGCCGTTTACCTATTCGATTGCAGACGGCATCGCCTTCGGCTTCATCA	2757
Sbjct	439627		439686
Query	2758	GCTATGCCGTGGTTAAACTTTTATGCCGCCGCACCAAAGACGTTCCGCCTATGGAATGGG	2817
Sbjct	439687		439746
Query	2818	TTGTTGCCGTATTGTGGGCACTGAAATTCTGGTATTTGGGCTGATTGAT	2877
Sbjct	439747	TTGTTGCCGTATTGTGGGCACTGAAATTCTGGTATTTGGGCTGATTGAT	439806
Query	2878	AATGCCGTCTGAAAGGTTTTCAGACGGCATTTTGTTTGCCGATATA-TTAATTTTTATTA	2936
Sbjct	439807	AATGCCGTCTGAAAGGTTTTCAGACGGCATTTTGTTTGCCGATATATTTAATTTTTATTA	439866
Query	2937	AATTATATAAAAATCAAATACATAAAAATACATCGGATTGCTTAAAAATAATACATTG	2996
Sbjct	439867	AATTATATAAAAATCAAATACATAAATACATCGGATTGCTTAAAAATACATTG	439926
Query	2997	TTTTTTATGTATAAAATATTTTATAAGTTTTCAGGATTTGGATTATTGAAAATTTTTCTT	305 <del>6</del>
Sbjct	439927	-TTTTTATGTATAAAATATTTTATAAGTTTTCAGGATTTTGATTATCAAAAATTTTTCTT	439985

Query	3057	GATTTCCTGACAATTTTATTGAAACAAATAATTCAAAATTAATCTAGTTTAATCATAGAA	3116
Sbjct	439986	ĠĂŤŦŤĊĊŤĠĂĊĂĂŤŦŤŦĂŦŤĠĂĂĂĊĂĂĂŤĀĂŤŤĊĂĂĂĂŤŤĂĂŤĊŤĂĠŤŦŤĂĂŤĊĀŢĠĠĀĀ	440045
Query	3117	TTAAAATAAAATATTAAAATTATGTAATGAGTCTCCTTAAAAATGTTTGACATTTTCAGT	3176
Sbjct	440046	ŤŤÄÄÄÄŤÄÄÄÄŤÄŤŤÄÄÄÄÄŤŤÄÄÄÄŤĠŤĠŤĠŤĠŤĠŤÄÄÄÄÄÄ	440105
Query	3177	CTTGTGTTTTAGATTATCGAAAAATAAAACTACATAACACTACAAAGGAATATTACTATG	3236
Sbjct	440106	CTTGTGTTTTAGATTATCGAAAAATAAAACTACATAACACTACAAAGGAACATTACTATG	440165
Query	3237	AAACCAATTCAGATGTTTTCCCCTTTTCTGAATAATCCCCTTGTTTTCTTCTTGTCTGCG	3296
Sbjct	440166	AAACCAATTCAGATGTTTCCCCCTTTTCTGAATAATCCCCCTTGTTTTCTTCTTGCG	440225
Query	3297	GTTTTGCCGCATAATTCCGAACGGTCTGCTGTTTTTCTTTGATTCGTTTTAAATATCAAT	3356
Sbjct	440226	GTTTTGCCGCATAATTCCGAACGGTCTGCTGTTTTTCTTTTGATTCGTTTTAAATATCAAT	440285
Query	3357 440286	AAGATAATTTTTCCCATATATTTTTAATGATTGGATTGG	3416
Sbjct	3417	CTGTGTTTTGCCGTCCGAATGTGATGGAAGCCTGTCCATACTGAAAAAAGTCTATAAAG	440345 3476
Sbjct	440346		440405
Query	3477	GAGAAATATGATGAGTCAACACTCTGCCGGAGCACGTTTCCGCCAAGCCGTGAAAGAATC	3536
Sbjct	440406		440465
Query	3537	GAATCCGCTTGCCGTCGCCGGTTGCGTCAATGCTTATTTTGCACGATTGGCCACCCAAAG	3596
Sbjct	440466		440525
Query	3597	CGGTTTCAAAGCCATCTATCTGTCTGGCGGCGGCGTGGCAGCCTGTTCTTGCGGTATCCC	3656
Sbjct	440526	CGGTTTCAAAGCCATCTATCTGTCCGGCGGCGGCGTGGCAGCCTGTTCTTGCGGTATCCC	440585
Query	3657	TGATTTGGGCATTACCACAATGGAAGATGTGCTGATCGACGCACGACGCATTACGGACAA	3716
Sbjct	440586	TGATTTGGGCATTACCACAATGGAAGATGTGCTGATCGACGCACGC	440645
Query	3717	CGTGGATNCGCCTCTGCTGGTGGACATCGATGTGGGTTGGGGCGGTGCATTCAATATTGC	3776
Sbjct	440646	ceregaraceccrerecrecacarcarerecerrecerre	440705
Query	3777	CCGTACCATTCGCAACTTTGAACGCGCCGGTGTTGCAGCGGTTCACATCGAAGATCAGGT	3836
Sbjct	440706	ĊĊĠŦĀĊĊĀŦŦĊĠĊĀĀĊŦŦŦĠĀĀĊĠĊĠĠĊĠĠŦĠŦŦĠĊĀĠĊĠĠŦŦĊĀĊĀŦĊĠĀĀĠĀŦĊĀĠĠŦ ĸ	440765
Query	3837	AGCGCAAAAACGCTGCGGTCACCGTCCGAACAAGCCATTGTTATCTNAAGATGNAATGG	3896
Sbjct	440766	AGCGCAAAAACGCTGCGGCCACCGTCCGAACAAAGCCATTG-TATCTAAAGATGAAAATGG	440824
Query	3897	TCGACCGTATCAAAGCTGCCGTAGATGCGCGCGTTGNTGNGAACTTCGTGATTATGCCGC	3956
Sbjct	440825	TCGACCGTATCAAAGCTGCCGTAGATGCGCGCGTTGATGAGAACTTCGTGATTATGGCGC	440884
Query	3957	GTACCGATGCGCTGGCGGTAGAAGGTTTGGATGCCGCTATCGAACGCGCCCAAGCTTGTG	4016
Sbjct	440885	GTACCGATGCGCTGGCGGTAGAAGGTTTGGATGCCGCTATCGAACGCGCCCAAGCTTGTG	440944
Query	4017 440945	TCGAAAGCCGGTGCGGACATGATTTTCCCTGAAGCCATGACCGATTTGAACATGTACCGC	4076 441003
Sbjct Query	440945	TCG-AAGCCGGAGCATGATTTTCCCTGAAGCCATGACCGATTTGAACATGTACCGC  CAATTTGCAGATGCGGTGAAAGTGCGTGTTGGCGAACATTACCGAGTTTGGTTCCACT	411003
Sbjct	441004	CAATTTGCAGATGCGGTGAAAGTGCGTGTTGGCGAACATTACCGAGTTTGGTTCCACT	441063
تا تا رحمت	121004		

Query	4135	CCGCTTTATACCCAAAGCGAGCTGGCTGAAAACGGCGTGTCGCTGGTGCTGTATCCGCTG	4194
Sbjct	441064	CCGCTTTATACCCAAAGCGAGCTGGCTGAAAAACGGCGTGTCGCTGTATCCGCTG	441123
Query	4195	TCATCGTTCCGTGCAGCAAGCAAAGCCGCTCTGAATGTTTACGAAGCGATTATGCGCGAT	4254
Sbjct	441124	TCATCGTTCCGTGCAGCAAGCCAAAGCCGCTCTGAATGTTTACGAAGCGATTATGCGCGAT	441183
Query	4255	GGCACTCAGGCGGCGGTGGTGGACAGTATGCAAACCCGTGCCGAGCTGTACGAGCATCTG	4314
Sbjct	441184	GGCACTCAGGCGGCGGTGGTGGACAGTATGCAAACCCGTGCCGAGCTGTACGAGCATCTG	441243
Query	4315	AACTATCATGCCTTCGAGCAAAAACTGGATAAATTGTTTCAAAAATGATTTACCGCTTTC	4374
Sbjct	441244	AACTATCATGCCTTCGAGCAAAAACTGGATAAATTGTTTCAAAAAATGATTTACCGCTTTC	441303
Query	4375	AGACGGTCTTTCAACAAATCCGCATCGGTCGTCTGAAAAACCCGAAACCCATAAAAAACACA	4434
Sbjct	441304	agactgcctttcaacaaatccgcatcggtcgtctgaaaacccgaaacccataaaaacaca	441363
Query	4435	AAGGAGAAATACCATGACTGAAACTACTCAAACCCCGACCTTCAAAACCTAAGAAATCCGT	4494
Sbjct	441364	AAGGAGAAATACCATGACTGAAACTACTCAAACCCCGACCCTCAAACCTAAAAAATCCGT	441423
Query	4495	TGCGCTTTCAGGCGTTGCGGCCGGTAATACCGCTTTGTGTACCGTTGGCCGCACCCGGCA	4554
Sbjct	441424	récécttrictégécettécégécégétaátaccécttrigtégtátaccértrégécetta-écégéca	441482
Query	4555	ACGATTTGGAGCTATCGCGGTTACGACATCTTGGATTTGGGCACAAAAATGCGTTTGA	4612
Sbjct	441483	acgattt-gagctatcgcggttacgacattctggattt-ggcacacaaaaatgcgagtttga	441540
Query	4613	AGAAGTAGCCCACCTGCTGATTCACGGTCATCTGCCCAACAAATTCGACGTGGAAGCTTA	4672
Sbjct	441541	AGAAGTCGCCCACCTGCTGATTCACGGCCATCTGCCCAACAAATTCGAGCCGCCTTA	441600
Query	4673	TAAAAGGAAGCTCAAATCCATGCGCGGCCTGCCTATCCGTGT-ATTAAAGTTTTGGGAAA	4731
Sbjct	441601	TÁÁÁÁCCÁÁGCTCÁÁÁTCCÁTGCGCGGCCTGCCTÁTCCGTGTGATTÁÁÁAGTTTT-GGÁÁÁ	441659
Query	4732	GCCTGCCTGCACATACCCATCCGGATGGACGGTAATGGCGTACCGGCGGTATCCATGCTG	4791
Sbjct	441660	ĠĊĊŦĠĊĊŦĠĊĀĊĀŦĀĊĊĊĀŦĊĊ~ĠĀŦĠĠĀĊ~ĠŦĀĀŤ~ĠĊĠŦĀĊĊĠĠĊ~ĠŦĀŦĊĊĀŦĠĊŦĠ	441715
Query	4792	GGCTGCGTTCATCCCGAACGTGAAAGCCATCCCGGAAAGTGAAGCGCGCGACATCGCCGA	4851
Sbjct	441716	ĠĠĊŦĠĊĠŦŦĊĂŦĊĊŦĠĂĂĊĠŦĠĂĂĂĠĊĊĂŦ~ĊĊĠĠĂĂĂĠŦĠĂĂĠĊĠĊĠĊĠĀĊĂŦĊĠĊĊĠĂ	441774
Query	4852	CAAACTGATTG-CAGCCTCGG-AGCCTCCTGCTGCTACTNGGTATCAATA-TCGCACAACG	4908
Sbjct	441775	ĊĂĂĂĊŤĠĂŤĊĠĊĊĀĠĊĊŤĊĠĠĊĂĠĊĂŤĊĊŤĊŢŤĠŤĂĊŤ~ĠĠŤĂŤĊĀĀŤĀŢŤĊĠĊĂĊĀĀĊĠ	441833
Query	4909	GCAAACGCATTGA-GTTG-AAGCGACG-AGAGA-CATCGGCGGTCATTTCCTGCAACTGT	4964
Sbjct	441834	ĠĊĸĸĸĊĠĊĸŦŦĠĸĠĠŦŦĠĸĸĸĠĊĠĸĊĠĸĸĠĸĠĸĠĸĊĸŦĊĠĠĊĠĠŦĊĸŦŦŦĊĊŦĠĊĸĸĊŦĠŦ	441893
Query	4965	TNCACGGC-AACGCCCAAGCG-ATCACACATCAAAGCCATGCACGTTTCACTGATTCTGT	5022
Sbjct	441894	ŤĠĊŔĊĠĠĊĸŇĸĊĠĊĊĊŔĸĠĊĠĸŔŤĊŔĊŔĊŔŤĊŔŔŔĠĊĊŔŤĠĊĸĊĠŦŤŤĊŔĊŦĠŔŦŦĊŤĠŤ	441953
Query		ATG-CGAACACGAGTTCAACG-TTCTACCTTTACCG 5056	
Sbjct	441,954	ÁTGCCGAÁCÁCGÁGTTCAÁCGCTTCTÁCCTTÁCCG 441989	